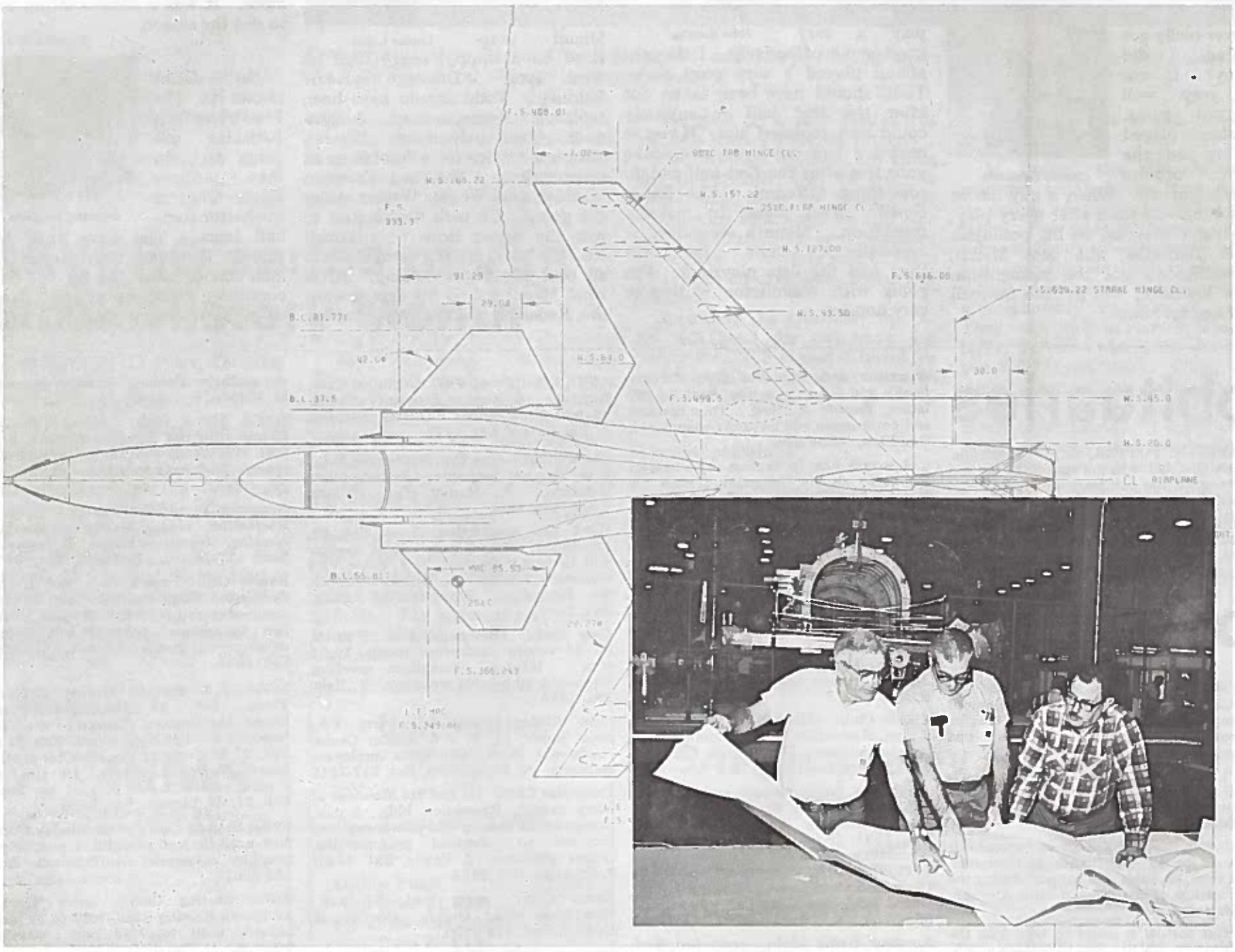
GRUMMAN
plane news

Vol. 42, No. 2, January 28, 1983. Bethpage, N.Y. 11714



X-29: Building the plane with the wonder wings

The X-29 forward swept wing aircraft, featuring the latest in aviation design, control systems and materials, is being assembled in Plant 5. Mike Genco, George Rocchio and George Angelbeck (L to R) are part of the night crew working on the plane. Page 3.

What do you think?

There was no joy in Mudville for the New York Jets and their fans last Sunday. Even a mudpack couldn't take the sting out of the 14-0 Miami victory. The morning after, fans in Plant 5 still hadn't recovered from the Miami killer bee attack. We asked the Monday morning quarterbacks what went wrong on Sunday and who's going to win the Super Bowl this weekend — the Washington Redskins or the Miami Dolphins. What do you think?

Frank Lodato

Miami's got the better team. They'll beat the 'Skins by a touchdown. The Jets got a bum rap. With that field, Miami should have put the tarp down the night before. Then Todd would have gotten more passes off. The Jets weren't going to make any headway on the ground. Their passing game was cut off. They should have passed more on first down. But Wesley Walker couldn't get out there. Miami has a much stronger running game. That made the difference.

Charlie Benjamin

The Jets never really got going, did they? It was a very well played game. Defense played a big part; the N.Y. offense never got off. When a guy has to wipe off the mud after every play, he can't play up to his potential. The Redskins will beat Miami; Washington's got the momentum. Joe Theisman will get the football off against Miami.

John Budriss

Tarp should have been put down on the field. It was disadvantageous to the Jets. They needed a good field to play a very good game offensively. I thought Miami played a very good game. Todd should have been taken out after the first half — anybody could have replaced him. If you're having a bad day, you stop, take your loss after the first half and do something different. The Super Bowl? Very tough to make a prediction. Miami's secondary — especially A.J. Duhe — looks like they had the Jets playbook. I'm going with Washington — they're very hungry.

Louise Laing

I don't blame Walt Michaels. I agree with him — the field should have been covered with a tarp. Miami practiced on a sloppy, soggy field all week long. Drainage system? Baloney! Todd should have been replaced. I was so mad. A shutout? First half okay. There's always a chance for a fumble or an interception. Too bad Freeman MacNeil and Wesley Walker never got going. I'll pick Washington to win the Super Bowl — although No. 77 (A.J. Duhe) certainly was all over the place Sunday. After what Miami did to the Jets, I want the Redskins to knock the stuffing out of the Dolphins.

John Slovak

The 'Skins are going to win. They've got the better offense and defense. Miami will have trouble stopping Riggins. As for the Jets, the mud was no excuse. The Dolphins played on the same field. The Jets seemed to run two plays — on first down run, the remaining downs pass. While Miami's quarterback ran for some good yardage, Todd seemed to run the other way — like he was scared of getting clobbered. The Jets should have mixed up their plays more. It was a disappointing way to end the season.

Dorothy Hopkins

No doubt about it. The Washington Redskins are going to win the Super Bowl. They're the better football team. The New York Jets game? Terrible. They played like high school kids. As for the field condition, that's no excuse. Football is an all-season game.

obituaries

JAMES W. POTTER, Jr., of Prototype, Pl. 2, died Jan. 4 at the age of 55. He had been with the company since 1950 and resided at 74-79 220 St., Bayside.

ALBERT C. NITTI of Structures, Pl. 6, died Jan. 9 at the age of 66. He had been with the company since 1961 and resided at 149 West End Ave., Shirley.

personals

My family and I wish to express our gratitude for the kind expression of sympathy during the loss of my brother Dominick Pizzichemi. Rose P. Bruno and Family

I would like to thank all my friends and co-workers for their concern and thoughtfulness during my recent illness. Mildred Capobianco

My family and I wish to express our thanks to all my friends at Grumman for their kindness and support during the recent loss of my husband Ernie Johnson. Vida Johnson

Our sorrow is easier to bear with the help of friends like you. We want you to know how much we appreciate all that you have done for us in our recent bereavement. Gloria Severin and Family

My family and I thank everyone for the many expressions of sympathy received following the recent loss of my mother. John Zator

Thank you dear fellow workers and Grumman friends for your kind consideration and amenities given to my family and I following the death of my father, Eugene A. Seng. Your concern and compassion will be long remembered. God Bless. Gene Seng

I would like to express my sincerest thanks to all my Grumman friends for their cards, flowers, fruit, and gifts following my recent accident. It all helped to lift my spirits. Lee Smatlak

calendar

AIAA: Wed., Feb. 16, Antun's, Hicksville, 5:30 cocktails; 7:30 meeting. L.I. Section. Guests welcome. S. Miluscheva, Ext. 4279

Aikido Club: (Martial Arts) every Wed., 5 p.m., Recreation bldg. Beginners class. Guests welcome. M. Brooks, Ext. 115-6171/H. Brondo, Ext. 2719

Alcoholics Anonymous: every Mon., 4:30 p.m., Pl. 15, conference room C, closed meetings; Personnel Relations, Ext. 3521, Great River meetings: every Wednesday, 4-5 p.m. T. Connolly, Ext. 3521, Calverton: Chemical Dependency Discussion Group, every Mon., 4-5 p.m., Guard Hdq.; open meeting. Personnel, 369-6759, C. Robb, Ext. 117-7038

Amateur Radio Club: every 3rd Wednesday of the month. Plant 5 conference room BD-1, 5 p.m. B. Wengler, Ext. 4187

American Society of Mechanical Engineers: Thurs., Feb. 17, Holiday Inn, Hauppauge, 7 p.m. L.I. Section. Guest speaker will be Larry Mustachio, Computerland of Suffolk. Discussion on how to choose a personal computer. Guests welcome. E. Lee, Ext. 9730

ASHRAE: Tues., Feb. 8, Linden Tree, Bethpage, 6 p.m. Program will be "Safety Engineering." Guests welcome. A. Rubenstein, Ext. 1778

Chess Club: every Fri., Recreation bldg., 5 to 11 p.m. Beginner — Expert, guests welcome. K. Marley, Ext. 4901/N. Corso, Ext. 9600

C.B.I. Vets Association: Tues., Feb. 22, Recreation bldg., 5 p.m. Guest speaker will be Irving Mednick, N.Y. State Vice Commander C.B.I.V.A. Guests welcome. W. Pytlowany, Ext. 3926/R. Fong, Ext. 2484

Coin Club: (Bethpage) Wed., Feb. 9, Pl. 25 vendor conference rooms, 12:05 p.m. Informal lunchtime meeting. Grumman employees welcome. K. Hale, Ext. 1825

Coin Club: (Calverton) every Fri., noon lunch, Pl. 6, A-6 Action Center conference room. Grumman employees welcome. N. Evangelides, Ext. 117-7242

Computer Club: 1st and 3rd Mondays of every month, Recreation bldg., 5 p.m. Computer discussion and demonstration/beginner to advanced programming. Guests welcome. J. Hayne, Ext. 4945/P. Frumkin, Ext. 5134

Dance Club: every Wed., 5-8 p.m., Recreation bldg. Guests welcome. S. Koppell, Ext. 115-3800

Duplicate Bridge Club: every Thursday, Recreation bldg, 6 p.m. Guests welcome. P. Gill, Ext. 115-8414

Folk Dancer's Club: (Calverton) every Thurs., 2nd floor, Pl. 6, lunchtime, Grumman employees only. J. Hamelman, Ext. 117-6835

French Club: Tues., Feb. 8, 108 N. Windhorst Dr., Bethpage, 5:30 p.m. French readings and discussion on trip to southern France. Guests welcome. M. Mirpuri, Ext. 3895

GACE Flying Club: Mon., Feb. 21, Cosmopolitan at Republic Airport, 5:15 p.m. Regular monthly membership meeting. Guests welcome. R. Reisch, Ext. 4847

Grumman Family Campers: Sun., Feb. 6, Recreation bldg., 5 p.m. Monthly meeting. Guests welcome. B. Ingersoll, Ext. 117-7475/L. DeTurris, Ext. 6855

Karate Club: every Tues. and Thurs., Recreation bldg., beginners 4:30 to 5:30 p.m., advanced 5:30 to 7:00 p.m., black belt instructors, physical and mental development; guests welcome. T. Ortiz, Ext. 4555

N.Y.S.S.P.E. Suffolk County Chapter: Thurs., Feb. 24, Huntington Town House, Huntington. Citizen of the Year honoring Mr. Lee Koppelman. Feb. 24 to Feb. 27 Engineering Week exhibit at Mid-Island Shopping Center, 10 a.m. to 9 p.m., and 12 to 5 p.m. on Sun., Feb. 27. W. Lipman, Ext. 2506

Roller Hockey Club: every Sunday from now until the end of April, 1 p.m. New members welcome. A. Pritchett, Ext. 132-5081

Roller Skating Club: every Thurs., Levittown Skating Rink, 7:30 to 11 p.m. Lessons 6:30 to 7:30 p.m. Guests welcome. H. Denen, Ext. 2291

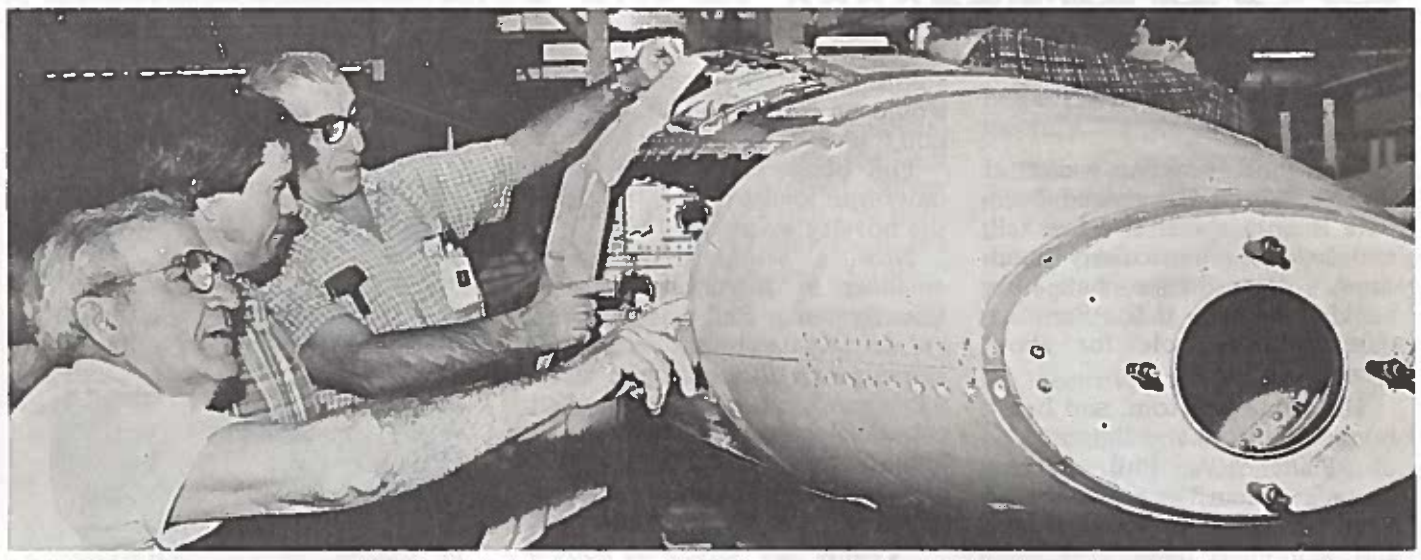
Ski Club: Tues., Feb 1 and Feb. 15, Tiki Lounge, North Babylon, 8:30 p.m. Guests welcome. A. Garmendia, Ext. 7819/8910 For racing information call T. Favale, Ext. 8758

Theater Guild: Tues., Feb. 1, John Kennedy J.H.S., Bethpage, 5:30 p.m. Open meeting. New members welcome. D. Rosenberg, Ext. 1943

X-29 is 'something to get excited about'

When it's completed, it will be able to move through the sky like a race car can move around a pack of milk trucks.

Nearly everything about the X-29 forward swept wing aircraft being built by the Product Development Operations Center in Plant 5's Blue Room is new. Its shape, with those "let's get going" wings, is unique. It uses composite material for a component — the wing — to an extent that composites have never been used before. There is a flight control system onboard called fly-by-wire — the most advanced system around.



Caring hands. *Mike Genco, Charlie Monaghan, and George Rocchio check out plans for shelves and brackets in the X-29's front end. (Photos by Fred Annette)*

Extra energy

What isn't new is the attention the plane is getting. You can almost *see* the energy being focused on the X-29.

"There are over 14,000 detail parts that have to get out on time," says Gene Phero, who is in charge of planning and scheduling. "Our job is to make sure the guys on the floor have the tools and the parts they need. We'll run all over the place to get them — and hand them to the guys on a silver platter if it will help them get the job done."

The avionics systems are going into the aircraft now; the graphite epoxy wing skins are being fitted to the wing structure. By July, the entire aircraft will be completed and moved to another part of Plant 5 to begin an extensive ground test program.

According to schedule, the X-29 will head for Calverton just before the 1983 year-end break for engine installation and to begin its flight test program.

Advance planning

According to Bob McGuckin, the program's business manager and deputy director for Operations, everything is running right on time. "We started with the planning of the aircraft by bringing manufacturing people into the job months ahead of when we ordinarily would. It is the ability of manufacturing and engineering to work together that produces a good product on a prototype job."

Everyone seems to pat someone else on the back.

Al Burger, the manufacturing manager, points to the huge graphite epoxy wing skins lying flat on a table. The skins go from a thickness of about three-quarters of an inch in the center down to about an eighth of an inch at the tips over its approximately 25 feet of width. They were built in Plant 3, layer by layer. In some places the skins are over 150 layers thick. When they were tested, they were perfect. There were no separations of the layers to be found. "I know of no other company that has had that kind of success with composites the first time around," says Burger.

But for foreman Frank Sacca, that's the sort of performance he's gotten used to seeing in his 27 years in the company. "The majority of the people working on this have seen many different types of aircraft. They have a lot of pride," says Sacca.

"But this is the kind of program you really get excited about."

NAVPRO series marks Black History Month

For the past 11 years, February has been Black History Month across the United States.

This year, to commemorate the achievements of Black people and to point out opportunities for future achievement, the Naval Plant Representative's Office is sponsoring a series of lectures.

On Wednesday, Feb. 2, Bob Farwell of the Cold Spring Harbor Whaling Museum will discuss "The Black Man and the Sea," presenting highlights from the museum's recent show.

The following Wednesday, Feb. 9, Bill Hawk, deputy Equal Employment Opportunity officer for the Naval Air Systems Command will be the guest speaker.

Both presentations will be held in conference rooms A and B in Plant 35 at 2 p.m.

Rear Admiral Lawrence Chambers, vice commander of the Naval Air Systems Command, will speak at a Feb. 18 luncheon at the Milleridge Cottage. Tickets are $10.50. For reservations, contact Paulette Whitaker, Ext. 7585, Mail stop A23-35.

GRUMMAN plane news

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Unit values

Investment Plan
Unit Values
as of

November 30, 1982

Equity Fund. $2.003
(up from $1.934)
Fixed Income Fund. . .$3.370
(up from $3.216)
Guaranteed Income Fund. $1.532
(up from $1.517)
Company Stock Fund. $45.375
(up from $41.313)
(October 31, 1982 unit values are in parentheses)

USAF Academy Foundation names Skurla to board

Grumman Aerospace President George Skurla has been named to the board of directors of the Air Force Academy Foundation.

In accepting the post, Skurla said, "Grumman's association with the Air Force goes back to 1949 with the Albatross. It continues today with our expanding Air Force business which includes the EF-111A aircraft program and the J/STARS radar system. We are also proud of our many years of participation in the Air Force's Education With Industry program. I welcome this post as an opportunity to serve the Air Force in its dedication to excellence."

The foundation was formed in the 1950s to assist the Air Force Academy in its continued growth and development.

Members of the board of directors include U.S. Secretary of Defense Caspar Weinberger, Northrop Corporation Chairman Tom Jones, United Technologies Executive Vice President Robert Carlson, and Gen. James R. Allen.

people

Service with a beep

The most popular waiter at Piper's Pub on Hempstead Turnpike is only about five feet tall, and he's not particularly handsome. Nevertheless, he's been packing them in at the Farmingdale watering hole for about three weeks now.

His name is Atom, and he's a home-built robot — the creation of Plant 12's Phil Barone. Atom's "brain" is a Transwave K 8073 computer in a plastic and aluminum body.

Phil has programmed Atom to greet people, tell them the daily specials, and wait on tables. A special sensor implanted in the robot's tummy lets him know when someone is passing in front of him — and Atom politely says, "Excuse me, please."

Atom is Phil's second robot. "He was actually pretty easy to build, because I spent eight years doing the development work on my first one," Phil says.

He reaches for his wallet and starts flipping through pictures of his wife and kids before he finds what he wants. "Here — this is Robot Redford," he says proudly, "my first robot." Robot Redford does odd jobs around the house, and can even mow the lawn.

Both robots were painstakingly built in Phil's two-story home workshop. (A two-story workshop? "Hey — it takes a lot of room to build a robot!" says Phil.)

His friends, who own Piper's Pub, were dazzled by the robot's abilities. "They thought it would be fun to have one at the pub," he says.

Phil obliged, and Atom is on indefinite loan to them ". . .until the novelty wears off."

Now a senior development engineer in Advanced Fabrication Systems, Phil has been involved with robotics — professionally and as a hobbyist — for 11 years. He is a certified roboticist with the Society of Manufacturing Engineers, and chairman of Robotics International's Aerospace Committee.

"People are afraid of robots now the way they used to be afraid of computers," says Phil. "They're afraid they'll be put out of a job. But the trend in industry has been for people to be retrained, and for their skills to be upgraded. If anything, robots will probably create more jobs.

"Robots will never replace people — but they can do a lot of the dirty work for them."

He is currently studying the possible use of robots to perform tedious or environmentally unpleasant tasks.

Unlike industrial robots, which do not necessarily look like people, Atom and Robot Redford are of the android variety — possessing vaguely human features, such as a head, arms, a torso. Because of this, there is a tendency to treat them as people.

As Phil instructs Atom to move back to his little booth at Piper's Pub, the robot says, "All systems on. All systems on."

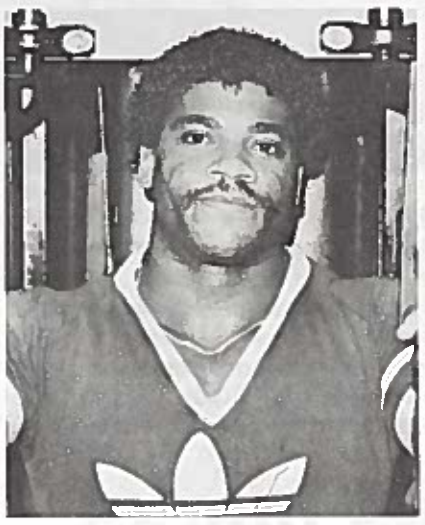
"Aw, be quiet," says Phil as he flicks the switch to "off."

I'll drink to that. *Robot Atom sets one up for his creator Phil Barone.*

Pumping ironman

Muscles are a lot like money. If you want to want to have any, as John Houseman might say, you have to *earn* them. You've got to sacrifice for them. Goodbye fancy foods; hello dry salads. Goodbye three cans of beer to help wash down a football game; hello water, lots and lots of water.

Just ask Gene Pinkney how much work it took to win the



Gene Pinkney

East Coast bodybuilding title last year, take second in the New York State championships and 13th in his class in his first try at the Mr. America title.

Pinkney, who runs the stockroom in Plant 12, has been "pumping iron" seriously for nearly five years. He started in order to stay in super shape after he'd quit playing semi-pro football. But it wasn't until his first competition, for the title of Mr. Apollo, that he learned how demanding bodybuilding was going to be.

"I was still thinking in football terms, thinking *big*," he recalls. "I'd look at the bodybuilding magazines. Those guys had big chests, big shoulders."

So, he figured that's all he needed. He kept lifting weights and eating. The five foot, eight-inch tall weightlifter weighed 196 pounds for the show. "When I got to the competition, I looked roly-poly next to those guys."

Now, when a competition is coming up, he sticks to chicken and turkey, the whites of eggs and plenty of vitamins.

With all this information about dieting, the toughest part of being a bodybuilder is the workouts at the gym. "When I prepare for a show, I work out for two and a half, three hours. I leave work and go right to Mr. America's gym in Farmingdale, and start working out around four, four-thirty," Pinckney says.

He does that four nights a week. "When I'm about three weeks from a show I train every night."

Appointments

The following Grummanites have received new assignments recently:

Calverton Operations — Stanley Nilsen has been appointed F-14 Avionics group leader for Calverton Engineering. Dennis Amadio has been named Stockroom inventory control supervisor for Calverton Material and Logistics. Also in Material and Logistics, Michael Molinaro has been appointed EF-111A Material Operations supervisor.

Irvine Operations — Thomas Davin has been appointed program manager for the Balloon Altitude Mosaic Measurements program. Filling the slot of program manager for the Advanced Warning System program is Dick Fischetto.

A-6 Program — Richard Waldt has been appointed program manager for A-6 STOL (Short Takeoff and Landing).

Field Operations — John Griffing has been named site manager at Robins Air Force Base in Warner Robins, Georgia.

Technical Operations — Alan Kocka has been appointed group leader, EF-111A ATE Systems Software, in the Engineering department. Also in the Engineering department, Stephanie White has been appointed group head of Facility Software, and Don Polofsky has been named Operational Software group head. In the Integrated Logistics Support department, Ronald Kudla has been appointed project engineer, Design Engineering, for the EA-6B. James Scrivener has been named business manager in Program Controls — E-2 Foreign Military Sales.

Configuration/Data Management — Frank Lagonigro has been named manager, Boeing Programs Configuration/Data Management.

Malaysian A-4 Program — Martin Dandridge has been appointed managing director of the program; William Fehrs is deputy managing director.

Evening collegians score high on ambition

Tuition reimbursement takes bite out of school bills

When you attend college at night, there are no frat parties, pep rallies or beer blasts. After putting in eight hours at work, sitting in a classroom several hours a week is no picnic. No doubt about it, going to evening college is a tough, demanding — yet rewarding — undertaking.

Just ask Grummanites Roger Tharpe, Don Schwarz, and Marilyn Carvino.

'Being reimbursed 100 percent definitely motivates you to get an A'

Roger Tharpe

"You do make sacrifices to go to college," says Tharpe. "I miss the time spent away from my family, but it's worth it in the long run." Tharpe has been going to school since 1976 and after getting an associate's degree at Suffolk Community College is now attending New York Institute of Technology.

"The workload is demanding," adds Schwarz, who is pursuing a master's degree in computer science at NYIT. "It really gets hectic toward the end of each semester."

Carvino agrees. "Going to college takes away the time you would be spending with your family and friends," she says. Last May, she was the valedictorian of Farmingdale College's evening program with a 4.0 average. Carvino now studies for her bachelor's in business at Adelphi University.

Along with scores of other industrious Grumman students, all three use the company's Tuition Reimbursement Program to supplement their college costs.

The program's purpose is to encourage and — within limits — financially assist Grummanites in furthering their education in science, engineering and certain business disciplines associated with company operations.

Eligible subject categories covered by this program are engineering, mathematics, physics, chemistry, economics, accounting and finance (not personal investment or real estate courses), marketing (organizational rather than sales oriented), personnel, computer science, secretarial science, and business law.

What's your grade?

Tuition is reimbursed on the basis of grades: A — 100 percent; B — 85 percent; and C — 75 percent. "Pass-fail" or "satisfactory" grades are not reimbursable except in the case of a graduate thesis in an eligible field.

Money is always a big factor when considering enrolling in college. "There is quite a big difference in tuition costs per semester between Suffolk and NYIT," states Tharpe, a financial analyst in Plant 40 for the A-6 Program. "Since I started college in 1976, I'd estimate that I've been reimbursed over $1,000 from the Tuition Reimbursement Office."

Switching from a community college to a four-year institution triggers a dramatic increase in tuition bills. "When I attended Farmingdale, my average semester tuition for six credits was $210," says Carvino, a proposal coordinator in Plant 5. "At Adelphi, it's $987 per semester."

Right in the pocketbook

Graduate schools charge an even higher tuition. "A few semesters ago, I received a tuition bill of $1,350 for two computer courses at Polytechnic's Farmingdale Center," reports Schwarz, a Plant 31 quality engineer for Software Quality Assurance. In addition, he had to pay $100 for books and additional money for labs and student fees. Schwarz estimates that he's been reimbursed over $3,000 for the courses he's taken.

Carvino, Tharpe, and Schwarz have advice for fellow Grummanites interested in jointing them on the night school circuit. "Be prepared to spend money at the beginning of the semester," says Tharpe. Grumman students are reimbursed (depending on grade) *after* the semester ends based on final grade average. Student and lab fees and books are not reimbursable.

Usually, colleges have registration for the following semester before the final grades are issued, so students must pay tuition before getting reimbursed for the recently completed semester.

Those interested in pursuing a master's degree in a field unrelated to their undergraduate studies should also be prepared to take prerequisite undergraduate courses, cautions Schwarz.

Big incentive

Still, the high costs of education have not deterred Carvino, Schwarz and Tharpe from going after the sheepskin. "Other students at Adelphi can't believe that Grumman is reimbursing me," says Carvino. "It makes you realize how special the Grumman plan really is. I can't understand why more people aren't using the program."

These three Grummanites agreed that the company's program encourages people to go to college — and to succeed. "Being reimbursed 100 percent definitely motivates you to get an A," says Tharpe.

Tharpe offers this advice to fellow Grummanites who are thinking about college. "Don't delay. Start right now!"

He began his Grumman career as a government material controller in 1972. He has participated in the company's PROFIT (Procurement Related Opportunities from Instructional Training) — a training program in Procurement Operations — and is now a financial analyst.

Since he started going to night school in 1976, his family has grown to include three children — aged three months to six years. "I've spent plenty of lunchtimes hitting the books," Tharpe says. "I wish I had started 10 years ago. The older you get, the harder it is to go back to school."

Don Schwarz estimates that he's been reimbursed over $3,000 for courses he's taken.

Back to school?

Tuition Reimbursement forms and booklets are available at all Employee Services (ES) offices. Applications should be filed immediately after registration at school and must be submitted no later than 30 days after the last day of the school registration period.

If you have questions about the Tuition Reimbursement Program, call Ext. 3385. Career counseling may be obtained by calling Personnel Development, Ext. 6147. Course counseling, however, should be obtained from the school of your choice.

E. Piwowar

E. Roemer

J. Grubel

service milestones

40

Pino Guarino, Router & Shear (2)
Caesar Roscigno, Sub-Assy. Major (2)
Anthony S. Cisco, Trans-Ops. (20)
Louis Raganella, Site Mgt. (286)

35

George B. Fowler, Sub. Assy. (1)
Joseph J. DeLorenzo, Proj. Mgmt. (2)
Joseph R. Gregg, Trans-Ops. (2)
James J. Finnegan, Convent. Machs. (3)
Robert T. Irvine, Wing Final Assy. (3)
Adolf LoDuca, ILS Mech. Ang. Mgt. (5)
John H. Gutkes, Matl. Ops. (6)
Martin Getzelman, ILS Tech. Servs. (9)
Robert C. Ketcham, Matl. Short. Cntl. (30)
John G. Hedges, B/P Warehouses (37)
Vincenzo J. Dandona, Prod. Cntrl. (43)

30

Dominick Capozzi, Parts Paint (2)
William J. Maffia, Die Shop (2)
Russell Butler, Composites & Adhes. (2)
Frank DeGatino, Maint-Rearrangement (2)
Paul Darby, Parts Paint (3)
Jack Wolfenden, Office Mgmt. (5)
Anthony Ferretti, Maint. Admin. (5)
Frank Sticco Jr., Pl. Protection (18)
Russell W. Squires, Research (26)
Alfonso J. Prisco, Reqts. Plnng. (30)
Robert Harris, ILS Mech. Eng. Mgt. (35)
Mark T. Guss, Comp. Sys. M/S (35)
Louis N. DeAngelis, Prog. Contracts (35)
Theodore A. Rybacki, Tech. Reqmt. (40)
Claus G. Wendler, Mfg. Reqts. Plnng. (43)
John J. Cherry, Qual. Cntrl. (77)

25

James F. Grubel, Maint. Admin. (44)
Joseph A. Giarraputo, Subcontractor Surveil. (287)
Eugene R. Piwowar, Stockrooms (4)
Robert A. Hess, Structural Test (5)
Edward H. Roemer, Bus. Mgmt & Anal. (5)

20

James A. Dysart, Sub Assy. (1)
William J. Davis, Elect. Equip. Des. (1)
Charles A. Schoenig, Software Anal. (1)
Douglas A. Craven, Specifications (1)
Henry C. Koenigsamen, Est. Resources (1)
William E. Neagle Jr., Est. Resources (1)
Anthony C. Repetti, Q.C. Insp-Mech. (1)
James F. Hampson Jr., Elect. Fab. (2)
William J. Boese, Hydraulics (2)
Herbert R. Grossman, Mfg. M/S (2)
Harold L. Jones, Stockrooms (2)
Thomas J. O'Connor, Stockrooms (2)
Thomas F. Flynn, Convent. Machs. (3)
Robert P. Wilcox, Convent. Machs. (3)
Andrea F. Lenzi, Convent. Machs. (3)
Otto W. Murdock, Maint-Rearrangement (3)
Cyril Swerdlin, Veh. Liaison Eng. (3)
Jack Piacente, Wood Shop (5)
Theordore P. McCarthy, Avionics Test (5)
Robert G. VanSchaick, Supp. Equip. Prod. (5)
George D. Smawley Jr., Supp. Equip. Prod. (5)
Michael J. Gabriel, Prog. Matl. Mgmt. (5)
Charles M. Schuhlein, ILS Equip. Des. Eng. (5)
Michael A. Maloney, Maint-Rearrangement (5)
Frank Amereno, Maint-Facil. Equip. & Gen. (5)
Carlton Benton, Maint-Facil. Equip. & Gen (5)
Joseph M. Ryan, Mgt & Staff (5)
Robert W. Ballin, Legal (5)
John W. Lamb, Maint-Facil. Equip & Gen. (6)
Eugene Serafine, Food Service (6)
Robert A. Zeltmann, Structures (6)
Richard R. Kupczyk, Prod. M/S (6)
Joseph M. Bongiorno, Matl. Ops. (6)
Gerald M. Garett, Elec. & Mech. ILS Supp. (6)
Henry F. Bade, Struct. Sys. Prod. Supp. (6)
Caroline A. Wright, Cal. Ops. M/S (6)
Harold J. Screven Jr., ILS Ops. Supp. (7)
Frank L. Buble, ILS Train. Sys. Eng. (7)
Peter A. Mulieri, Software Supp. (7)
Thomas E. Block, Flt. Saf. & Supp. (7)
Robert M. Lavelle, Flt. Avionics (7)
Reginald G. Rogerson, Flt. Dev. Ops. (7)
Carmine DeAngelis, Structural Des. (9)
Joseph N. McLaughlin, Config. Data Mgmt. (9)
Herbert H. McGrail, Meas. Stds. Lab. (12)
Vincent F. Casale, Safety & Maint. (14)
Leon Antonik, Lab. Mgmt & Tech. (14)
William R. Mulligan, ILS Pubs. Mgmt. (15)
Charles J. Stack Jr., ILS Tech. Writ. (15)
Raymond Mulesky, B/P Warehouses (17)
Richard H. Sweezy, Central Ship. Pkng & Hndlg. (17)
Thomas M. O'Connor, Central Ship. Pkng & Hndlg. (17)
Francis L. Salzman, Corp. Security (18)
Daniel J. Treanor, Trans-ops. (20)
Louis Alfano, PPO-E-2 (25)
John J. Tierney, ILS Eng. Mgmt. (25)
William A. Lindenfelser, ILS RF/Servo/Elec TPS Eng. (25)
Victor Silzer, ILS Ops. Supp. (25)
Silvia Crootof, Cust. Supp. Reqts. Mgt. (25)
Raymond B. MacCarthy, ILS Supp. Ops. Proj. Mgt. (25)
Raymond L. Pratt, Sys. Des. (25)
Charles S. Bobelis, Software Anal. (25)
Leonard I. Marsh, Operations (25)
Charles L. Kalaghan, Specifications (25)
Lester H. Salkin, Est. Resources (25)
Frederick Treubig, Est. Resources (25)
John M. Purcell Jr., Marketing (25)
Henry Lobato, Config. Data Mgmt. (25)
Margaret M. Sheridan, Employment (28)
Edward H. Kropf, Inventory Plan & Anal. (30)
Joseph M. Spinelli, Mach. Parts/Matl. (30)
Robert T. Weis, Gen. Commod. (30)
Donald J. Reheuser, Fac. Admin. (30)
Joseph Darty, Maint. Admin. (30)
Mary T. Kotzer, Contract Revenue (30)
Michael N. Solomita Jr., Acct. & Adm. (30)
Patrick J. Donoghue Jr., Supp. Cntrl. (30)
Joseph J. Scinta, ILS RF/Servo/Eclec TPS Eng. (31)
Joseph A. Forde, ILS Elec. Pack. (31)
John Driscoll, Maint-Facil. Equip. & Gen. (31)
Thomas Klemenko, Sys. Test (31)
Helias J. Doundoulakis, ILS Mech. Equip. Eng. (35)
Barbara R. Spanskie, Info Rec & Serv. (35)
George Costidis, Sys. Des. (35)
Grady S. Sullivan, Traj/Nav & Guid. Anal. (35)
Robert S. Aha, Optic & Display Equip. Des. (35)
Richard Edelmann, Software Sys. M/S (35)
Joseph M. Lisa, Sys. Sciences (35)
Bruce E. Hausser, Eng. Admin. M/S (35)
Joseph A. Mule, Qual. Eng. (35)
Henry D. Wolf, Safety & Maint. (39)
Ralph A. Iacontino, Instruct/Anal. (39)
Bernerd Bernier, Mfg. Prog. Mgt. (40)
Louis P. Ceccanti, ILS RF/Servo/Elec TPS Eng. (40)
Donald A. Zaros, ILS Sub-Syst. Eng. (40)
Thomas M. Fry, Power Pl. Des. (40)
John W. Fletcher, Avionics Des. Proj. Mgt. (40)
Carmine A. Monaco, Specifications (40)
Lorraine C. DeGaidano, Bus. Ops-Off Mgt. (40)
John S. Virga, Avionics Sys. Test Temp. (43)
Richard A. Patrie, Avionics Sys. Test Temp. (43)
Charles J. O'Neil, Elect. Wire Prep-Temp. (44)
Anthony Pellitteri, Prod. Supv. (44)
Martin D. Hanlon, Prog. Plnng. Cntrl & Budg. (47)
Herbert J. Estes, Matl. Cntrl. (66)
Harold C. Sherwood Jr., Thermoplastics (66)
John J. Conway Jr., Tech. Ops. (77)
Theodore H. Conklin, Tech. Ops. (77)
Anastasios Vousoulas, Prototype/Detail Parts (77)
Thomas C. Ryder, Base Mgmt. (88)
Robert E. Stella, Engineering (88)
Norman R. Swagler, Engineering (88)
Richard M. Riccardone, Engineering (88)
Ronald J. Folchetti, Log. Servs. (269)
Arnold S. Orenstein, Reliability (279)
Gary R. Bates, Avionics Dev. (282)
Ronald J. Kirkpatrick, Supp. Cntrl. (287)

15

Thomas S. Sharkey, Sub-Assy, Major (1)
Philip T. Benardello, Fuselage Assy. (1)
Julian M. Merritt, ILS Commod. Cntrl. (1)
Charles J. Meyer, ILS Commod. Cntrl. (1)
William Martin, ILS Ops. Supp. (1)
Jerry J. Marenga, ILS Auto Circuit Anal. (1)
Edward Jenkins, Heat Treat (2)
Harry V. Kingsmore Jr., Hydraulics (2)
Charles L. DiMarco, Fin. Assy. (2)
John S. Mariarossi, Prod. Cntl-Parts Cntrl. (2)
Clifford T. Wolff, Repair Cntrl. (2)
Arthur B. Thomasson, Cap. Mon. & Ctl. (2)
Ronald E. Bellew, Mech. Process Eng. (2)
Calvin T. Dear, Equip & Supply (2)
Fred G. Hof, Metal Treat-Fin/Sealnt. (2)
Walter Eisenblaetter, Maint-Rearrangement (2)
Henry J. Niemczyk, Maint. Indust. Cntrl. (2)
John H. Judd, M&ME M/S (2)
Earl S. Nettles Sr., Q.C. Lab. (2)
Antoinette Graffeo, Repro Servs. (3)
Francis J. Schmidt, Food Service (3)
Peter D. Hannigan, I.E. Flow Seq. Plnng. (5)
Nicholas C. Szuchy, ILS Train. Sys. (5)
Concetta Gagliardi, Maint-Facil. Equip. & Gen. (5)
Berend F. VonSeggern, Resources (5)
Carolyn M. Hillenbrand, Cal. Fac. (6)
Albert H. Rowell, Maint. Wast. Dispos. & Grond. (6)
Henry A. Siliati, Pl. Protection (6)
Richard G. Mason, Structures (6)
Thomas W. Steinjann, Matl. Ops. (6)
Ross T. Baiera, Automat. Circuit Anal. ILS (6)
Walter J. Ryan, Final Assy. Insp. (6)
George Black, Fin. Assy. Insp. (6)
John B. McCaffery, Corp. Instr. Ops & Projs. (7)
Kenneth G. Euring, Flt. Dev. Ops. (7)
Elliott Goldenberg, RF Equip. Prod. Supp. (8)
Margaret M. Cashman, Thrust Reversers & Nac. (9)
Bruce Driver, Q.C. Lab. (10)
Leroy Tinsley, Templates (11)
Joseph P. Farias, Maint-Rearrangement (12)
Allen M. Sinowitz, Elements & Mat. Test Lab. (12)
Richard H. Truran, Elements & Mat. Test Lab. (12)
Rocco N. Figalora, Elec. Des & Dev. (14)
Rafique U. Ahmed, Software Anal. (14)
Kenneth L. Lewis, Repro Servs. (15)
Arthur Damon, ILS Tech. Writ. (15)
Francis A. Meehan, Plt. Protection (18)
Robert W. Pitt, Pl. Protection (18)
Kelly L. Kirby, Trans-Equip. Maint. (20)
Hans J. Stern, ILS Auto Circuit Anal. (25)

(continued on page 8)

scorecard

On target

The Grumman varsity pistol teams continue to shoot up their opponents in the Long Island Industrial Pistol League.

The "B" team took on IBM on January 6 and beat them by 20 points, 987-967.

Bernie Boyle led the Grumman squad's shooters with a 252. Team captain Tom Wickenhaver was next with a 247, followed by Bob Hambrecht at 245 and co-captain Howard Saltzman, who shot a 243. "That gives us a record of five wins and two losses," reports Wickenhaver.

The varsity .22 team is having even greater success in their division. On January 7 they beat the Mitchell Field Gun Club to up their perfect season record to seven wins.

Upcoming date

With Ground Hog's Day just around the corner, it's time to start thinking softball. Preparations for the approaching 1983 softball season are underway.

The women's varsity softball team is looking for players. "Every position is open; we're always looking for new talent," says manager Al Grillo. All candidates must be full-time employees to participate in the program.

An organizational meeting will be held on February 10 at 5 p.m. in the Plant 15 buffeteria. All interested women should contact Grillo, Ext. 2856 or Ken Kretschman, Ext. 8933.

Hoop scoop

The Grumman varsity is leading five other teams in the chase for the number one spot in the Long Island Industrial Basketball League.

"Things are going pretty nicely right now," says coach Russ Goss, whose Tomcats currently sport a 7-1 record.

That record in no mean feat, Goss states. "The league is the best balanced it's ever been. There are no weak teams at all."

Goss says the Tomcats might have lost more games than the one they dropped to GDS. The Grumman Data Systems team threw an effective zone defense against the Tomcats early in the season, a tactic other teams picked up. "We had a little trouble with that," says Goss, "until we came up with something."

That "something" was a modified four-corner offense with three men at half court, one at the foul line and another working the end line from corner to corner.

Goss switches to this offense if the Tomcats have a five point or better lead towards the end of the third, or the beginning of the fourth quarter.

If you'd like to see how well this offense works, the Tomcats will be facing the GDS team on February 8 at 7 p.m. in Howitt Junior High School in Farmingdale.

A goal for you

Run down to your Employee Service office and pick up your free tickets to see the Grumman varsity hockey team play the European American Bank team on February 9, the Long Island Industrial Hockey League's Sponsors' Night.

The pre-game ceremonies start at 8:00 at the Nassau Coliseum.

Not only will you get to see great hockey, you'll have a chance to win a trip to Atlantic City. Your ticket will be put into a drum and one winner will be drawn. The winner will receive a day-long trip for two to Atlantic City. And if the winner can hit a puck through a hole in a board placed in front of the goal, the prize will become a trip for 10 to Atlantic City.

By the way

On January 6, the Grumman hockey team's Jim Allen took a tie game from the grasp of the New York City Fire Department's "B" team and turned it to victory. With just four seconds left, Allen scored the game-winning goal, giving the Tomcats a 7-6 win. Star of the game for Grumman was John Look, who had a hat trick.

A weigh out?

If you can't seem to knock off those extra pounds, Grumman Recreation has something to try. It's called "Weigh-In," a series of classes on weight control. Topics include behavior modification and cooking tips. Drop in on Tuesdays in Plant 28A. There are two one-hour sessions. The first begins at noon and the second at 1 p.m.

Table tennis tourney adds trophy events

There's something new in the table tennis tournament. The Grumman Recreation tournament will add two new events for '83; novice singles and women's doubles.

Tournaments will be held in Bethpage, Calverton and Great River, and all start on February 23.

At Bethpage, there are ten divisions — five singles and five doubles — to enter. There will only be two divisions in Calverton and Great River.

Each player may enter one singles and one doubles event. Players who won trophies in their last tournament must advance to the next division. Players who did not win a trophy before can enter the division they last competed in or drop to the next lower one. Everyone can play in Mixed Doubles as an extra event.

The Bethpage matches will be played at lunchtime in Plant 28A. For information about the tournament in Calverton call Ernie Maggi, Ext. 117-6772. Great River entrants can call Bob Albert, Ext. 113-3394.

Each entrant must fill out the accompanying entry form and send it to the director of the tournament they will be entering no later than February 10.

Table tennis tournaments

Entry form

NAME..... MAIL STATION.....

EXT ..... PLANT.....

SINGLES ☐ Women's ☐ Men's ☐ B ☐ C ☐ Novice

(Players check one singles event only. Both men and women may enter B, C or Novice singles).

DOUBLES ☐ Women's ☐ Men's ☐ B ☐ C ☐ Mixed

(All players may enter one doubles plug the mixed event).

DOUBLES PARTNERS: Womens, Mens, B or C

NAME ..... EXT .....

Mixed Doubles

NAME ..... EXT .....

☐ I wish to enter doubles events checked but need (a) partner(s).

Deadline February 10.

Mail entries to Recreation, A01-28A

for Calverton tournament: Ernie Maggi, A18-06

for Great River Tournament: Bob Albert, A16-43

Billiards tourney invites everyone into the pool

This year marks the 22nd time the Grumman Recreation Pocket Billiards tournament is being held. The first break of the 1983 edition will take place on February 17 at the House of Lords billiard parlor on South Oyster Bay Road in Hicksville.

To enter, fill out the accompanying entry form and send it to Recreation no later than February 11.

There are two stages in this tournament. In the early rounds the competition will be by 75-point games with single elimination. One loss and you're out. But hold on to make the final four and you'll switch to 100-point games and play double elimination.

Pocket billiards tourney

Name..... Ext.....

Perm. No..... Mail stop .....

Tennis stars. *At Stuart Ops., Grummanites who earned trophies in the annual tennis championships were: (L to R) Charlene Castagnero, Chuck Bell, Cynthia Sullivan and Tony Anderson.*

Top hoopsters. *Winners of the Stuart Operations' annual basketball tourney were (L to R) Chuck Singletary, Robert Clark, Leonard Kleckley and Andrew Rogers.*

Bragging rights. *In the battle for softball supremacy at Stuart, the F-14 Tomcats defeated the Boeing team. Representing the champs were (L to R) Nick Durick, Chuck Singletary, Pete Oates, and Lucious Raysor.*

milestones

(continued from page 6)

Mario A. Scavuzzo, ILS Auto Circuit Anal. (25)
John W. Henry, ILS Auto Circuit Anal. (25)
William Harwell, Thermal Sys. (25)
John Zike, Operations (25)
Henry J. Pleim, Proj. Plnng. (25)
Anthony J. Biegen, Corp. Sys. (25)
Henrietta R. Walsh, Procurement Servs. (30)
Anthony A. Boccaccio, Subcontractor Surveil. (30)
Frank J. Ferrara, Subcontractor Surveil. (30)
Nori W. Quarles, Food Service (30)
Salvatore A. Sarbello, ILS Auto Test Equip. Eng. (31)
Darwin Green, ILS Auto Test Equip. Eng. (31)
Francis J. Loehr, Computer Syst. Ops. (35)
Susan M. Dalva, Personnal Liaison (35)
Harold D. LaWare, ILS Sys. Eng. Mgmt. (40)
Patrick J. Connolly, ILS Auto Circuit Anal. (40)
Charles A. Antonette, ILS Equip. Des. Eng. (40)
Hector R. Vila, Propulsion Sys. (40)
Kenneth J. Johnston, Veh. Struct. Anal. (40)
Seymour Berg, Reliability (40)
Albert R. Sarraffe, Antennas & Radomes (40)
Peter D. Gentile, Computer Des. (40)
Harry A. Herman, Electromech. Des. (40)
Peter Moor, Optic & Display Equip. Des. (40)
William M. Lenahan, Est. Resources (40)
Reginald H. Metcalf Jr., Config. Data Mgmt. (40)
Paul R. Wolff, Bus. Ops. M/S (40)
James Aldworth, Mgmt. Personnel M/S (43)
Cheryl R. Hirsch, Administration (43)
Neil J. Giovannetti, Insp. Elect. (43)
Frederick E. Menges, Maint. Indust. Control (44)
Shelley Davis, Elect. Cable Fab-Temp. (44)
John A. Kennedy, Inspection (56)
Jerry C. Lambert, Machine Shop (56)
Robert S. Tillman, Machine Shop (56)
Donovan Smith Jr., Pl. Protection (77)
Paul E. Dale, E-2C Wings/F-14 Weapons (77)
Issac H. Knight, E-2C Wings/F-14 Weapons (77)
Charles J. Dahlman, CH-53E Assy. (77)
Bruce R. Tuthill, Power Plant (77)
Gerald J. Comstock, Aircraft Avionic Sys. (202)
Robert Stalter Jr., Supp. Sys. (267)
Terry D. Snyder, ILS Equip. Des. Eng. (272)
John Gerstner, Mfg. Offsite Supp. (282)
Robert L. Searle, Air Frame Sys. (501)

retirees

On behalf of our fellow workers, PLANE NEWS salutes the following men and women for their contributions to the company and wishes them well in their retirement. Those who retire in December and January are:

James R. Bond (3), Silvia Crootof (25), Margaret M. Cashman (9), Marilyn G. Koos (40), Edward F. Kruse (30), Carmine Trimboli (30), Roger E. Metzger (4), Angelina Federico (44), Alice G. Kehoe (25)

Wrong number?

E.T. can phone home but he can't phone you if your number isn't properly listed in the spring edition of the Grumman Telephone Directory.

To make sure the number is going to be listed correctly, Telecommunications Services will be sending cards. If you get one, it will list your name and the phone number they now have for you. If the information is wrong, please make the necessary corrections and return the card to Telecommunications, A28-2, no later than March 15.

GRUMMAN plane news

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